

CLAIMSI claim:

1. A method for detecting at least one taggant in the packaging material  
for an article, comprising:

providing the at least one taggant in at least a portion of the packaging  
material;

causing the at least one taggant to radiate at least one x-ray; and

analyzing whether the at least one x-ray has a specific energy.

2. The method of claim 1, wherein the packaging material is at least one  
label.

3. A method of analyzing the packaging material for an article,  
comprising

providing at least a portion of a packaging material on or over a portion of an  
article;

irradiating the packaging material portion with an energy beam; and

analyzing whether the packaging material portion irradiates at least one x-ray  
with a specific energy.

4. The method of claim 3, wherein the packaging material is at least one  
label.

5. A method for packaging an article, comprising:

providing a portion of an article; and

providing at least a portion of a packaging material on or over a portion of the  
article, the packaging material portion comprising at least one taggant which radiates  
at least one x-ray when an energy beam is impinged thereon.

6. The method of claim 5, wherein the packaging material is at least one  
label.

7. Packaging material for an article, the packaging material comprising at  
least one taggant which radiates at least one x-ray when an energy beam is impinged  
thereon.

8. The packaging material of claim 7, wherein the packaging material is at least one label.

9. A method for manufacturing a packaging material containing at least one taggant, comprising:

5 providing a component of the packaging material;

adding at least one taggant to the component, the at least one taggant radiating at least one x-ray when an energy beam is impinged thereon; and

combining the tagged component with other components of the packaging material.

10 10. A method for manufacturing a packaging material containing at least one taggant, comprising:

providing at least a portion of a packaging material; and

adding at least one taggant to the packaging material portion, wherein the at least one taggant radiates at least one x-ray when an energy beam is impinged thereon.

15 11. A method of manufacturing a packaged article containing at least one taggant, comprising:

providing a portion of an article; and

providing a portion of a packaging material on or over a portion of the article, the packaging material comprising at least one taggant which radiates at least one x-ray when an energy beam is impinged thereon.

20 12. The method of claim 11, wherein the packaging material is at least one label.

13. A packaged article containing at least one taggant made by the method comprising:

25 providing a portion of an article; and

providing a portion of a packaging material on or over a portion of the article, the packaging material comprising at least one taggant which radiates at least one x-ray when an energy beam is impinged thereon.

14. The packaged article of claim 13, wherein the packaging material is at least one label.

15. An article comprising a packaging material containing at least one taggant which radiates at least one x-ray when an energy beam is impinged thereon.

16. The article of claim 15, wherein the packaging material is at least one label.

17. A method of tagging an article with at least one taggant comprising: providing a portion of an article; and providing a portion of a packaging material on or over a portion of the article, the packaging material comprising at least one taggant which radiates at least one x-ray when an energy beam is impinged thereon.

18. The method of claim 17, wherein the packaging material is at least one label.

19. A packaging material containing at least one taggant made by the method comprising:

providing a component of the packaging material;

adding at least one taggant to the component, the at least one taggant radiating at least one x-ray when an energy beam is impinged thereon; and

combining the tagged component with other components of the packaging material.

20. A packaging material containing at least one taggant made by the method comprising:

providing at least a portion of a packaging material; and

adding the at least one taggant ~~to~~ the packaging material portion, wherein the  
at least one taggant radiates at least one x-ray when an energy beam is impinged  
thereon.

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